

NUCLEAR DIVISION NEWS

A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 3 No. 13 Thursday, September 14, 1972

QUESTION

If you have questions on company policies, benefits, etc. or any other problems with which we might help, just let us know. Drop your inquiry in the mail to the Editor, Nuclear Division News. (Or telephone it in to your plant news representative . . . see page two.) You may or may not sign your name. We will not use your name in the

Questions are referred to the proper authorities for as accurate and honest an answer as possible. Each query is given serious consideration for publication.

Answers may be given to employees personally if they so desire.

QUESTION: Why are so many Union Carbide Corporation Biology Division employees permitted to arrive late in their parking lot from 8:01 - 8:45 a.m. and leave early from about 4-4:30 p.m.? A steady influx of cars can be observed entering or leaving the Biology Portal daily at these hours. These are not visitors nor shift workers, but technical and secretarial personnel. Should not the Carbide work rules of 8 to 4:30 be enforced?

ANSWER: Regular work hours, which are normally 8 a.m. - 4:30 p.m., are established and should be enforced. Clerical and administrative employees in the Biology Division do work these regular 8 a.m. - 4:30 p.m. hours. Scientific staff are often required to be at work at odd hours, late in the evenings and on weekends, because of the nature of their work. Thus, their work schedule must be more flexible. Experiments might suffer considerably if the scientific staff were restricted to a regular schedule without any flexibility. All employees, of course, work at least a 40-hour week.

It is not generally known that the Biology Division has well over 100 guests working in it. Much of the traffic at odd times during the day certainly comes as a result of these people. The students, visiting professors and their secretaries, who are there representing their own organizations are, of course, under no obligation to observe the Carbide working schedules.

Your letter has been called to the attention of the Biology Division manage-

QUESTION: Recently the ASME (American Society of Mechanical Engineers) made available to its members a group insurance policy to supplement major medical insurance and provide some protection against what might be termed a "medical disaster." This policy had a \$15,000 deductible feature and an upper limit of \$100,000 for each illness or accident. Individual or family coverage was offered. Could Union Carbide arrange such coverage for its employees as a group at their own expense? Has any consideration been given to this possibil-

ANSWER: The net effect of the coverage you describe would be an increase in the maximum benefits payable under the Major Medical Expense Plan, except that the cost is shared between the company and employees.

Union Carbide Corporation reviews all of its plans, including the Major Medical Expense Plan, from time to time to insure that they are up to date and meet the basic needs of its employees.

In this regard, the Major Medical maximum was increased from \$10,000 to \$20,000 on November 1, 1968, for salaried employees and more recently for hourly employees.

A recent review shows that the \$20,000 maximum is adequate to cover the needs of most Nuclear Division employees. None of the more than \$15,000 Nuclear Division employees has used all of the \$20,000 now allowable. Only one dependent has reached this maximum.

We will continue to review this matter but would anticipate a change in the maximum under our Major Medical Expense Plan, when this is indicated, rather than introduction of still another plan.

OUESTION: Does an employee have to work overtime when asked by a supervisor? If I choose never to work overtime, will my supervisor consider this a poor work attitude?

ANSWER: Normally a supervisor will try to assign overtime on a voluntary basis. However, there may be occasions (Continued on page 4)

NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through September 7:

Paducah	Days	68,182 Man-Hours
ORGDP		626,000 Man-Hours
ORNL		1,185,873 Man-Hours
Y-12	Days	11,834,000 Man-Hours

Safety is everyone's concern!

United Way Campaign sets kickoff for September 25

"Thanks to you it's working," is the theme for this year's United Way campaign, set to get underway in the four Nuclear Division plants September 25.

Special editions of the Nuclear Division News will go out shortly to employees in the Oak Ridge and Paducah area, according to Henry H. Stoner, three-plant fund chairman in the Oak Ridge area, and David M. Dodson, fund chairman in the Paducah Gaseous Diffusion Plant.

Leaders are named

The goal has not yet been set for the Oak Ridge plants, and a \$40,000 mark has been aimed for at the Paducah Plant.

Acting as chairman in their respective plants are William J. Yaggi, Y-12; Harvey P. Carter, ORNL; and G. William Burgess, ORGDP; and James A. Corn, General Staff, as treasurer for the drive. Yaggi will have B.W. Hensley, president of the Atomic Trades and Labor Council; and Charles R. Lively, president of Local III of the International Guards Union of America, as co-chairman, Norman L. Beeler, will be co-chairman at ORNL. Beeler is vice president of the ATLC.

Other chairmen

G. Wilson Horde, division attorney, will act as chairman for the General Staff.

Herman Anderson, president of local 3-550 of the Oil Chemical and Atomic Workers and J.O. Dobson, president of Local III of the International Union of United Plant Guard Workers of America will be co-chairmen with Dodson at the Paducah Plant.

Payroll deductions will be stressed as usual in the drive. This provides employees with an easy, effortless way to give in small amounts, taken out monthly. Multiply these amounts by 12, however, and you have a healthy contribution to vital organizations in the communities around

Payroll deductions may be made in the Oak Ridge plants to United Fund campaigns in Anderson, Knox, Roane, Loudon, and Morgan Counties. Paducah employees may give to funds in McCracken, Ballard, Graves, and Massac County

Information, Review, News offices move

The Public Information Office, The ORNL Review, and the Nuclear Division News Office at the Laboratory have moved.

The office has now been relocated on the first floor of 4500 N, Rooms 143-149, which is on the front corridor. The nearest landmark is Chemical Stores, the back of which is directly across the hall from the new office.

The phone number for the News remains the same, 3-6421, and the mailing address is Room 147, 4500 N, ORNL.

Next Issue

The next issue will be dated Oct. 5. The deadline is Sept. 27.



OAK RIDGE PLANTS HONORED - Robert J. Hart, manager of the Oak Ridge Operations of the Atomic Energy Commission, recently presented the three plants the AEC's Award of Merit, the highest acclaim the Commission gives for safe performance on the job. Accepting the awards from left are Alvin M. Weinberg, vice president of the Nuclear Division and director of Oak Ridge National Laboratory; Jack M. Case, Y-12 Plant Superintendent; Hart; and Robert A. Winkel, Oak Ridge Gaseous Diffusion Plant Superintendent.

Y-12er carves pipes from exotic wood, meerschaum, in home shop

Anybody need a wagon seat tooled from mahogany, hand-rubbed and finished to a beautiful gloss? Mitchell O. Vickers, in Y-12's 9766 Machine Shop, has just completed a wagon seat complete with springs. Now all he needs is a wagon, or someone who wants a wagon seat. His wife says he can't keep it, and his daughter-in-law doesn't want it.

-Wood-working is the full-time hobby for the Y-12 machinist. "The very minute I go professional, I will kill carving off as a hobby and the enjoyment of this pursuit is gone," Vickers said. (He does sell an occasional pipe just to keep his "supply" money up, but he does not wish to become a professional whittler.)

Uses brier wood

His chief source of wood is the brier (a member of the heath family) which comes from the Mediterranean area, and in no way is kin to the rose or blackberry briar as is commonly believed. "It is the only wood known to man that can withstand the high temperatures of smoking, as well as the moisture that collects in the stem of a pipe," Vickers relates. The fast-dwindling supply of brier is also used for charcoal-making in certain parts of Europe where the charcoal-fired auto is popular. Other exotic woods such as mahogany, rosewood, teak, myrtle, cherry, and walnut may be used for the exterior of the pipe, but the interior of the bowl is also from brier.

Vickers also makes a meerschaum pipe. Meerschaum is a fine light white clayey mineral found in Asia Minor near Mount Ararat, where Noah's Ark reputedly settled after the Great Flood. Vickers says it is fossilized bone structure, it is believed, from what was once a sea in that area. The brittleness of meerschaum, however, makes it too breakable for the machinist's tastes. "I do make them, but prefer wood."

Makes other items

Pipes are not the only articles Vickers makes. He makes lamps, bowls, candle holders, waste baskets, candy dishes, and almost anything else that can be carved out of wood.

"I've been carving all my life," he tells, "and even have a scar to prove it. When I was about five or six I cut my left hand very badly with a knife my Dad gave me.

NUCLEAR DIVISION NEWS

UNION CARBIDE

Published Every 3 Weeks For The Employees Of UNION CARBIDE CORPORATION NUCLEAR DIVISION

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Office Post Office Box Y Oak Ridge, Tenn. 37830 The vein was severed, but in those days we didn't go to the doctor. Dad grabbed some spider webs to stop the bleeding."

He buys the wood, and comes by it accidentally sometimes. Recently a Masonic Order gave him seven tooled pieces of mahogany. Vickers plans to make over-sized candle holders from these pieces. He recently collected old table tops from the area and finished them.

Converted patio

Vickers gives a lot of his finished articles away. "It's highly complimentary to go into someone's home and see a bowl you've made.

He has resisted "going professional" as many of his friends and even part of his family have urged. He has his own philosophy about his hobby that "takes the kinks out."

The native Georgian worked for the R. LeTourneau Company in Georgia and Texas before coming with Union Carbide in 1959. His home at 3915 Elderwood Road in the West Haven section of Knoxville provides the workshop, which was converted from the back patio of the house. "It's back away where I won't disturb the rest of the family."

Vickers has two sons; Mitchell C., who just finished law school, and Bill, in his

PIPAC topic at seminar

The next Nuclear Safety Program Seminar will be held Thursday September 21, at 9:15 a.m. in the 4500 Building East Auditorium, ORNL. Speaker for the event will be C.G. Amato, New Jersey State Department of Environmental Protection.

Amato will discuss PIPAG (Procedures for Implementing Protective Action Guides), and will recount the history of two "recent disasters" and the steps taken to drill and rehearse PIPAG.



WAGON SEATS TO FINE PIPES — Mitchell O. Vickers, Y-12's 9766 Machine Shop, is shown with several of his hand-carved pipes and other items. The wagon seat in the foreground is of fine mahogany. The two white pipes are meerschaum, the remaining are wood. The Y-12ers interesting hobby is supported by the sale of a pipe "every now and then."

second year of pre-med studies at UT.

"I may be corny," Vickers muses, "but I like the machining trade. I guess my wood-working is just an offshoot from that. It's all I've ever done, and it's all I'd be happy doing."

Bowl boring by machine

The only part of the pipe that is machine-made is the boring of the bowl. "I have to machine-turn that," he smiled, "you could never hand carve a true hole into a bowl of wood."

There is no finish, no shellac, no varnish. Just plain wood. The bowl and stem will age with the oils from your hands, however, and the older a pipe becomes, the darker the wood.

Lack of patience is one of the Y-12er's complaints. "Some pipes require as much

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ORGDP WINS BOND AWARD — Robert A. Winkel, Oak Ridge Gaseous Diffusion Plant Superintendent, admires a citation presented to the plant for achieving more than 50 percent participation in the U.S. Savings Bond Drive. ORGDP, which also received its second Minuteman Flag, has 67.8 percent participation by employees in the Payroll Savings Plan. The General Staff, with 77.4 percent participation, and the Paducah Plant, with 72.3 percent, also received flags. From left are E.E. Foland, East Tennessee area manager, Savings Bonds, Treasury Department; Nuclear Division President Roger F. Hibbs; Robert G. Jordan, former plant superintendent, ORGDP; Winkel; R.M. Morvant, Southern Marketing Director, U.S. Treasury; and N.S. Rose, Tennessee Director for the Treasury's Savings Bond Program.

as 40 hours of hard work, and I simply can't stay with one that long."

But he does stay long enough to produce a beautiful finished product, where the grain of the wood is carefully preserved in its delicate shadings. J.A.Y.

Foreign travel planned by ORNL staff members

Jerry Braunstein of Reactor Chemistry Division presented lectures at the Boris Kidric Institute in Belgrade, Yugoslavia, August 28-September 1, and at the Third National Conference on Pure and Applied Physical Chemistry in Bucharest, Romania, September 3-7, at the EUCHEM Conference on Molten Salts in Cirencester, England, September 10-15, at the Institute of Radiochemistry in Julich, Germany, September 25 and at Norwegian Technican Institute in Trondheim, Norway, September 29. His lectures in Yugoslavia and the EUCHEM Conference are on "Hydrous Melts" and in Germany, Romania and Norway on "Thermodynamics of LiF-BeF2 Mixtures from EMF Measurements with Be and Li-Bi Alloy Electrodes."

Klaus Becker of ORNL's Health Physics Division recently chaired the General Dosimetry Session of the Third International Conference on Medical Physics in Gothenburg, Sweden. Earlier this year he spent two months as an advisor to the Brazilian government in Rio de Janeiro and Sao Paulo and presented two papers at the First Latin American Conference on Medical Physics and Radiation Protection

Henri A. Levy of the Chemistry Division presented "Structure and Molecular Orientation in Liquid Water and Aqueous Lithium Chloride from Neutron and X-ray Diffraction" and served as chairman of a session dealing with Structure in Liquids, Glasses and Amorphous Materials in the Ninth General Assembly and International Congress at Kyoto, Japan, in early September.

Richard L. Becker, Physics Division, will present "The Renormalized Brueck-ner-Hartree-Fock Approximation" at the

(Continued on page 8)

also granted their award of merit



Cyrus Feldman

Y-12 papers presented at international meetings



Y-12's research in machine tool technology and metallography will be presented at two international meetings this month.



Steger

Philip J. Steger, development engineer, will discuss "Practical Design Considerations for Application of Gas Bearings to Machining," at the 13th International Machine Tool Design and Research Conference in Birmingham, Eng-

land, September 18-22.

Lawrence F. DeRoos and Emery T. Rose, technical staff members of Y-12's Physical Testing Department, have coauthored a paper entitled "Infiltration of Metallographic Specimens with Metallic Alloys." The paper will be presented at the International Microstructural Analysis Society in Chicago, September 19-21.

ORNL Golfers plan final match Sept. 30

Saturday, September 30, has been selected as the final golf tournament of the year for ORNL tee-men. The scene: Gatlinburg Country Club, Gatlinburg.

Tee-off applications may be made through the Recreation Office, Building 9711-5, Y-12, telephone extension 3-5833.

Golf carts are available at the Smoky Mountain course and must be used by those taking early tee-off times. Please indicate to Recreation whether or not you wish carts.

ORGDP and Y-12 finished their tournaments earlier this month, Golfers, come again!

Cyrus Feldman of ORNL's Analytical Chemistry Division has been granted the Award of Merit and named a fellow of the American Society for Testing and Materials (ASTM.) The announcement was made September 13 at a Society meeting in Dallas.

ASTM is the world's largest source of voluntary consensus standards for materials, products, systems and services. Feldman was granted the Award of Merit for his contributions to the field of spectroscopy, specifically for the standard on Photographic Photometry which he

A native of Pennsylvania, he received the B.S. and M.S. degrees in chemistry from the University of Pennsylvania. He was a spectrochemist with the U.S. Geological Survey before coming to Oak Ridge with the U.S. Army Special Engineer Detachment in 1944. He joined ORNL in 1946.

He has served on the Editorial Advisory Board of Spectrochimica Acta, has been scientific editor of Optics and Spectroscopy and has held various positions with ASTM. He is also a member of the American Chemical Society, Optical Society of America, Scientific Research Society of America and the Society for Applied Spectroscopy.

Eskridge daughter wins plaudits in TTU awards

Joyce E. Hardaway was recently awarded a silver tray as the recipient of the "Outstanding Educator" Award at Tennessee Technological University, Cookeville. Mrs. Hardaway is the daughter of J.C. Eskridge, operator on C Shift

Mrs. Hardaway is a member of the following honorary societies: Phi Kappa Phi. Phi Alpha Theta, Kappa Delta Pi, the Gold Circle Senior Women's Honor Society, the Eagle Honor Society and is graduating from Tennessee Tech with highest distinction. She has carried a 3.777 average to date.

After graduation she plans to teach in the Chattanooga area. The Eskridges live in Harriman.

Cyrus Feldman named ASTM fellow; Paducah, ORGDP, promotions place five in new assignments

> The Gaseous Diffusion Plants at Paducah and Oak Ridge announce five recent promotions. Elsie G. McCarthy and Helen Colleen Hobson have been named keypunch supervisors at ORGDP, and George H. Winebarger has been made an environmental engineer there. Mary J. Foley has been promoted to a senior buyer in Purchasing.

> At Paducah, Ronald B. Gross has been promoted to an associate chemist in the Technology Department of the Laboratory Division.

> Helen C. Hobson, a native of Pulaski, Va., came to ORGDP more than 25 years ago. She has worked in the Medical Department and the Special Shops.

Miss Hobson lives at Route 3, Kings-

Elsie G. McCarthy

Elsie Gault McCarthy was born in Concord and grew up in the Claxton Community near Oak Ridge. She came with Union Carbide February 7, 1957, after working as a payroll clerk at Magnet Mills, Clinton.

Her husband, Joseph D. McCarthy, also works at ORGDP.

Mrs. McCarthy has two daughters and a son. She and her husband live at 204 Riverside Drive, Clinton.

Mary J. Foley

Mary Foley, nee Johnson, was born in Baxley, Ga., and came to the Oak Ridge area in the late 40's to work with Roane-Anderson Company. She came with Union Carbide in June of 1951.

She is married to Billy Lee Foley, and they have two daughters. The Foleys live at 122 Hamilton Circle, Oak Ridge.

Ronald B. Gross

Ronald B. Gross, a native of Hannibal, Mo., came with Union Carbide at the Paducah Plant in 1968. He attended the University of Missouri, Rolla, and was graduated from the University of Missouri, Columbia, in 1968 with a B.S. degree in chemistry. He spent 19 months in active service with the U.S. Army, serving most of that time in Vietnam.

Gross is married to the former Sheri Knodell. They live at 3719 Brookline Drive, Paducah. 4273



BOND CEREMONIES AT PADUCAH — A Minuteman Flag was presented the Paducah Gaseous Diffusion Plant recently for achieving more than 50 percent participation in the U.S. Savings Bond Drive, The Paducah Plant has more than 72 percent of its employees investing in Savings Bonds through payroll savings. The Flag was presented by R.M. Morvant, Southern Marketing Director for the Savings Bond Division, U.S. Treasury.



Mrs. McCarthy orl.

Miss Hobson 72 1824



Gross Winebarger

George H. Winebarger

George H. Winebarger, a native of Kingsport, worked almost two years with Holston Defense Corporation before coming with ORGDP February 1, 1971. He attended East Tennessee State University and graduated with a degree in chemical engineering from The University of Tennessee in 1971.

Winebarger is single and lives at Route 3, Poplar Springs Road, Kingston.

Toastmistress club names ORNL staffers officials



Misses Clark and Betz

Helen R. Clark and Nancy A. Betz, both ORNL employees, have been named president and vice president, respectively of Oak Ridge Toastmistress Club. The Club will celebrate International Toastmistress month in October.

Miss Clark, who holds a B.S. degree in chemistry from the University of Connecticut, works with the Special Separations Department of ORNL's Isotopes Division. She has been with Union Carbide more than 20 years. During her five years in the Toastmistress Club, Miss Clark has served as secretary and treasurer. She is a member of the American Chemical Society.

Nancy A. Betz has been at ORNL for more than 13 years, and is a group leader in the Mathematics Division. A member of the Association for Computing Machinery, she received her B.S. degree in mathematics from Iowa State University. Miss Betz was formerly a treasurer in the Toastmistress Club.

Another Union Carbide employee, Mildred McKinney, Y-12's Product Engineering and Scheduling Division, was named treasurer of the Oak Ridge club.



HICKORY-SMOKED — Employees and their families from Oak Ridge Gaseous Diffusion Plant are all set to enjoy once again the slow hickory-smoked barbecue, as shift workers work all night to prepare the delicious feast. Seen are some of last year's "chefs" hard at work on the best barbecue you ever tasted.

Barbecue-hootenanny at park for September 29 for ORGDP

Almost eight years ago it started on a small scale where a group of ORGDP employees got together for a clambake (actually, a barbecue feast). An outgrowth of the old Fishing Rodeo, the Barbecue-Hootenanny grew and grew like Mr. Finley's turnip, until last year it topped out with more than 1,200 attending!

The plant-wide function will be held this year on Saturday, September 29, with the chow-line opening at 5 p.m. Shift workers will be busy, however, before that preparing the hundreds of pounds of barbecue that will be consumed. (Actually, they begin the night before so the succulent meat will be cooked to the right tenderness.)

Tickets are available through the ORGDP plant. They are \$1.50 per person, and 75 cents for children under 12.

The affair will be held at the Clark Center Recreation Park. The Recreation Department advises that the Park will be closed to other employees from 6 p.m. September 28, through the entire day of September 29. There will be no boat

launching for other than ORGDP employees, Recreation warns.

Retired employees are most welcome, committee men state. They may obtain tickets through Recreation, extension 3-5833

Available for the feast will be beverages and all you can eat...at \$1.50. Sounds pretty reasonable, doesn't it?

Sorry, the affair is restricted to ORGDP employees, ORGDP retirees, and, of course, families of both.

Who needs people?

"People who need people..." is the way the Streisand song goes. And, "People needing people," is the way it is with the United Way. People who help other people realize more than those who are helped. Helping makes them needed, wanted. And that's what it's all about.

If you don't believe this philosophy, give it a try. You'll be amazed at the results!



TWO COMMISSIONERS AND A SENATOR — AEC Commissioners William O. Doub and Dixie Lee Ray along with Senator Howard Baker visited ORNL recently. Left, ORNL Director Alvin M. Weinberg talks with Commissioner Ray and Senator Baker. Commissioner Doub is in the center background.

DIVISION Retirees

Four veteran Y-12 employees retire at the end of this month, marking some 90 years combined company service. Retiring are Towns S. Curtis, John R. Hawkins Jr., Wilmer A. McNair and Clayton R. Olmstead.

Towns S. Curtis, a native of Hilton, Va., came with Union Carbide October 25, 1943, after working with Kingsport Press. He and his wife, the former Lillian Ellis, live at Route 3, Clinton. He is in Y-12 Material Control.

Retiring from Research Services will be John R. Hawkins Jr. Born in Vonore, Hawkins now lives at Route 4, Lenoir City. He came with Union Carbide July 1, 1953, after working with the Tennessee Valley Authority, Tennessee Eastman Corporation, Fairchild Engineering and





Curtis Hawkins

Wilmer A. McNair will leave Materials Forming in the Metal Preparation Division. A native of Cochran, Ga., he now lives at 143 Wainwright Rd., Oak Ridge. He came with Union Carbide May 15, 1947, after working with the Georgia Power Company, TVA and Combustion Engineering, Chattanooga.

Clayton R. Olmstead, Buildings, Grounds and Maintenance Shops, was born in Deer Lodge, and now lives at Route 1, Lancing.

He came with Union Carbide April 30, 1954, after serving two years in the U.S. Marine Corps.



(Continued from page 1)

when it is necessary for a supervisor to instruct an employee that he is required to work overtime for some good reason; such as, pressure of time, limited availability of qualified employees, or familiarity with the job. An employee's work attitude will have to be judged by a supervisor in the light of all the surrounding circumstances. A continued choice not to work overtime would normally have an adverse effect on this judgment.



Williams

Wells

Jesse Wells, a cementer finisher in Fabrication and Maintenance at ORGDP, retired September 1, ending almost 27 years company service. He lives at 908 Wright Street, Sweetwater.

Also retiring from ORGDP is Stanley R. Williams. Williams came with Union Carbide December 5, 1944. He was a maintenance mechanic in Fabrication and Maintenance. Williams lives at 134 Tyson Road, Oak Ridge.



Cunningham

Eric H. Cunningham, Paducah Fire Driver, retired last month after nearly 20 years company service. He and his wife, Jessie, live in Dresden, Tenn., and he has commuted to the Paducah Plant through the years. They have two sons and a daughter.

Cunningham says he plans to catch up on his fishing and hunting this fall to begin his retirement.



Harmon

Retiring from ORNL at the end of September is Ernest M. Harmon. A mill-wright foreman in Plant and Equipment Division, Harmon came to ORNL from Alcoa in October of 1943.

The Clinton native lives at 221 Howard Street in Clinton. He plans to vacation following retirement and work at his woodworking hobby.

Bates to Glasgow

Lamont C. Bate, Analytical Chemistry Division, will present "Determination of Minor Elements in Soil Profiles by Neutron Activation Analysis" at the Second International Conference on Forensic Activation Analysis in Glasgow, Scotland, September 27-29.

—A Woman's Word —

'Couldn't balance a checkbook'

Since "A Woman's Word" appeared in the last issue of Nuclear Division News, many questions have been asked. Can I send in my favorite recipe? Will household hints or child care hints be included? Are you going to push women's lib? Plus many others.

Perhaps the best way to preview the column is to explain why we're here. Nearly two thousand women are among our readership as employees within the Nuclear Division. Over 93 percent of male employees are married, and their wives have access to the News at home. In all, we have a wide potential -- and, we feel, a need. We can't please everyone, but we believe that most of our women readers are busy people and we plan to direct "A Woman's Word" at busy people.

We have no ax to grind on any particular issue. In the columns planned for future issues, we hope to interest you, perhaps to please you, perhaps to startle you, and occasionally to prompt you to action. And, if you'll cooperate with us -- that is, by responding to us -- we can serve you better.

"You know, last year my neighbor's husband died and she didn't know anything about his insurance, the mortgage, their debts or anything. She didn't even know how to balance the checkbook."

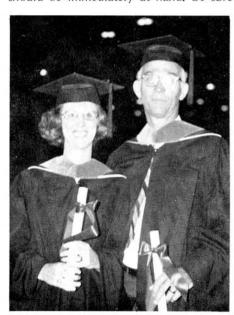
The usual response when questioned about personal and business matters is: "Sure mine are in order but..." Then the person questioned continues by telling about some friend's predicament when death or personal tragedy knocked.

Somewhere here, there's a lesson. Granted, many people have their personal and financial matters in order and maintain up-to-date vital records. But the vast majority of families don't. Lack of planning only increases the trauma of a very difficult time such as a death, or a family crisis. It increases costs, too, as a lawyer must be hired to unravel the family estate.

Wives live longer

Few men outlive their wives. In recognition of this vital statistic, many older men are careful to keep their wives advised on the status of life insurance, investments, home mortgages and other matters that would be of great importance to a new widow. Younger men, less aware that they are likely to die before their wives, often fail to keep their wives informed on such matters. The oversight can compound a widow's problems.

Perhaps the best way to keep family records up to date (and to minimize a widow's problems) is to list and periodically revise important information which should be immediately at hand. Be sure



DOUBLE GRADUATION — Helen and Joseph H. Hafford received Masters Degrees from The University of Tennessee recently. Mrs. Hafford took an M.S. in educational administration and supervision and he was awarded an M.S. in physics. Hafford is employed in Operations Analysis and Long Range Planning, and she works for the school of education at UT.

each family member who needs to know of these records has a copy or knows where to find one.

'Next of kin'

A good place to start record keeping is the "Next of Kin" booklet which each Nuclear Division employee receives when hired. If you need a new copy, it's available from ORNL's Insurance Office, 4500N, 3-6928; Paducah's Benefits Office, Administration Building, PAX 324; Y-12's Retirement Office, 9704-2, Room 144, 3-7382; and ORGDP's Benefit Plans Office, K-1001, 3-3311.

Following is a checklist of items which should be included in your records:

'Location of papers'

A recapitulation of insurance in force and where the policies are located. Many insurance agents, on request, will prepare a recapitulation. It should show policy number, face value, any provision for double indemnity or other special benefit in event of accidental death, name of beneficiary, and whether the value of any policy has been reduced by borrowing against it

A statement of whether a will has been prepared and, if so, its location.

The name, address, and telephone number of the husband's lawyer if he has one.

The precise location of a cemetery lot, if one has been purchased, and the location of documents proving ownership.

Husband's and wife's Social Security numbers and the address of the nearest Social Security office.

Veterans' benefits

Brief description of any retirement plans in which the husband has participated and the benefits, if any, that may be payable to a widow. Note the location of any papers detailing the retirement plan.

Veterans of military service should advise their wives to check with the Veterans Administration on possible eligibility for benefits including a burial allowance, education assistance for widow and children, pensions, and dependency and indemnity allowances.

Note the location of military discharge papers, military serial number, and if one was assigned, Veterans Administration claim or C number.

Location of marriage certificate and any birth certificates that have been obtained for any member of the family.

Auto papers, too

A recapitulation of any stocks and bonds, including their location and their value when acquired.

The location of automobile titles. If money is still owed on a car, note the amount of payments, how often they are Health physics leader K. Z. Morgan retiring, to teach at Georgia Tech

Retiring from ORNL after almost 29 years of service is Karl Z. Morgan, Morgan, one of the early leaders in the health physics field, started the Health Physics Division and served as director until this year. He has accepted a position as professor in the School of Nuclear Engineering at Georgia Tech and has moved to Atlanta.

A native of North Carolina, he graduated from the University of North Carolina with the A.B. and M.A. degrees and from Duke University with the Ph.D. in physics. From 1934 to 1943 he was chairman of the Physics Department at Lenoir Rhyne College, Hickory, N.C.

In 1943 he joined the Metallurgical staff at the University of Chicago and was one of a small group to develop and establish the new science known as Health Physics. Later that year he came to ORNL to direct health physics activities. The division grew to over 200 people engaged in research, engineering and applied problems.

In 1957 he was the first president of the Health Physics Society and editor of the society's journal, Health Physics. He has served on numerous councils and commissions and testified several times before U.S. Senate investigations on limiting radiation exposure levels not only in industry but from medical and dental X-rays. In 1970 he was named president emeritus of the International Radiation Protection Association.

He is a fellow of the American Physical Society and the American Nuclear

due, when the car is scheduled to be paid for, and the name and address of the holder of the car note. Many car financing deals include insurance that pays any balance due if the debtor dies; double check and note if you have such a policy. Employees with loans at their local credit unions do have such coverage. Loans of eligible borrowers at the ORNL, Y-12, ORGDP and Paducah Credit Unions are covered for death and total and permanent disability.

If you are a homeowner, note the location of the title to the property. If the house is mortgaged, note the name and address of the mortgage holder, the location of mortgage payment books or receipts, amount and frequency of mortgage payment, and when payments should be completed. Be sure to note if you have an insurance policy that would pay off the mortgage if you die.

Debts should be listed

The location and number of any checking or savings accounts in banks, savings-and-loan institutions or credit unions.

The locations of any safety deposit boxes that have been rented.

A recapitulation of any sizable outstanding debts, including the amounts and the names of the creditors.

A complete list of credit card numbers with company names and addresses. Also the number of cards issued to you or your family should be recorded.

Any preference for the handling of your remains and whether there has been any advance arrangement for donation of organs.

Don't assume that your husband or wife knows all the above about your affairs. How many of the items in the list above would your spouse know if you were to die when you lay this paper down!



Karl Z. Morgan

Society and an associate fellow of the American College of Radiology. He is a member of many other associations and has published numerous scientific papers.

ORGDP Overlook attracts travelers from forty states

Once again the Visitor's Overlook at the Oak Ridge Gaseous Diffusion Plant has proved itself to be a popular tourist attraction in the area. More than 6,000 visitors from 40 states and nine foreign countries viewed the ORGDP complex from the Overlook during the summer months.

Registering in the guest log were visitors from most of the states of the U.S.A...only one in the East -- Vermont -- was not represented, and a few of the Western states -- Montana, Arizona, North and South Dakota, Nevada, Wyoming and Alaska and Hawaii -- failed to show visitors.

Among the nine foreign countries providing tourists were Taiwan, Belgium, England, France, Norway, Switzerland, Germany, Yugoslavia and the Bahamas.

More than a hundred visitors registered during one day in August, and in late July a group of 98 Boy Scouts from New Jersey viewed the tourist attraction.

Animated displays

The air-conditioned Overlook has facilities which describe the role of the gaseous diffusion plants -- and other AEC facilities operated by Union Carbide Corporation -- in meeting the nation's growing energy needs.

A recording is activated which describes in lay language the processing of uranium for the free world's power reactors, and defense needs for this country. The facilities at the gaseous diffusion plant are identified on the large aerial photo in the front of the booth. Also inside the Overlook are included diaramas, animated displays and color photographs of plant operations. Literature is also available free at the Overlook.

Picnic area

Visitors are also invited to visit the Oak Ridge Graphite Reactor at the Oak Ridge National Laboratory, now a national historic landmark, and the American Museum of Atomic Energy in Oak Ridge.

A picnic area is maintained at the Overlook for the visitors' convenience. The area has an easy access road from State Highway 58 overlooking the sprawling gaseous diffusion plant.





LEAGUE CHAMPIONS - In a heated play-off the All Stars overcame the Snakes in "best-of-three" play 8-4 and 6-4, after dropping the first game 8-2. The All Stars, from left, are Al Miller, Larry Brown, Neal Noland, Larry McDonald, Fred Wetzel, Jackie Pope, Ken Self, manager; Dave Post, Mel Herrin, Dennis Grooms, Jerry Parrott, Bill Maddox, Iver Jeeter, Colin McCarty, Tip Tipton, Dick Graham and



 $egin{aligned} extstyle VICTORIOUS SNAKES-The Snakes clipped the All Stars in a single elimination \end{aligned}$ tournament 10 to 8 as the Oak Ridge softball season ended recently. The Snakes include, kneeling from left, are Horace Moorman, co-manager; Rick Stacey, Everett Stacey, Mike Ritter, Russ Hand, Kent Dixon and Arnold Hawkins. Standing are Charley Holland, co-manager; Jay Harris, Earl Nall, Mike Sherill, Bob Culton, E.T. Stamey, Hoyt Eason and Richard Tate.

ALL CARBIDE SOFTBALL

The Nuclear Division crowned softball kings in the Oak Ridge area recently, as two teams split honors. The All Stars belted the Snakes in a play-off for the league championship recently, besting them 8-4 and 6-4, after losing game one

Then the Snakes, not to be out-done, downed the All Stars for the tournament championship 10-8. The single elimination tournament was played the last week of August.

HUNT-FISH DAY

The Oak Ridge Sportsman's Association will open its gates to the public on National Hunting and Fishing Day, September 23, from 1 to 5 p.m. The purpose of this celebration is to call attention to the contribution hunters and fishermen make to the conservation of our natural resources and to introduce the nonhunting public to the hunters and fishermen in the community.

Visitors are invited to participate in such outdoor skills as archery, skeet, trap, pistol marksmanship, and the shooting of muzzle-loading, black-powder replicas. Equipment will be available for visitor's use.

Final league standings:

3

8

13

13

13

13

14

15

18

18

19

22

Team	W
All Stars	23
Snakes	22
Buccaneers	18
Colts	17
Computes	16
K-25 Supersonics	15
Enerjetics	14
Gang	13
Red Barons	12
Hornets	12
Knights	11
Losers	11
Bio-Rejects	10
Bombers	9
Centaurs	9
Ecology	9
Playmakers	9
Raiders	8
Thermos	7
Carbide Trojans	4
Underdogs	4
Ridge Runners	3
A-Wingers	O

Job improvement courses in office work offered

Classes are now forming for secretaries and other office workers who are interested in job improvement. The courses are offered by the Oak Ridge Chapter of the National Secretaries Association.

The courses will be programmed to aid persons studying for the Certified Professional Secretaries Examination.

Scheduled to begin on September 26 and run through April, 1973, courses will be offered on Environmental Relationships (Psychological and Human Relations), Secretarial Procedures and Administration, Economics of Management, Financial Analysis and Mathematics of Business, Business and Public Policy, Communications and Decision Making.

Classes will be held at the Oak Ridge High School weekly from 6:30 to 8:30 p.m. for five weeks each. Offered first will be Environmental Relationships, George L. Joseph, instructor.

Nuclear Division employees are eligible for educational benefits upon satisfactory completion of the course. Details and advance registration forms are available from Bettye Burns, 3-1306.

Y-12 GOLF

Neil and Jerry Case wrapped up the South Hills Golf League recently, outclassing R.W. Cloyd and A.B. Townsend. Larry Gibson and L.C. Manley placed third in the closely-fought contest for league laurels.

The Butler-Patton duo remains one point out in front in the Southwest Point Golf League, as Goddard-Hatmaker breathes down their neck. Tied for third place are the Shilling-Nunley and Luckett-Tuck team.

The Lakeside League put the Alvey-Carmack-Dorr-Pryson team way out front...as they defeated the Emery-Butturini pair in regular match and topped Hogg-Ladd in a card match. The George-Sharp-Baker-Ferguson team placed second in the summer-long race.

ALL CARBIDE SKEET

Y-12's Bill Weathersby shot a 49.491, to take first place in August Skeet firings, with Leon Bray, 47.729 and Carl Brewster, 47.627, closely behind. Vern Raaen and Alan Van Hull placed high, but were under penalty due to previous high fir-

Paducah's Yancy fires in Los Alamos shooting

Keith Yancy, Paducah Fire and Guard Department Captain, participated in the first annual Atomic Energy Commission Pistol Tournament, held at Los Alamos,

N.M., in July. Twenty marks-



curity Office represented the Oak Ridge Operations of the Atomic Energy Commission.

Yancy and Snyder shot as a team and scored a total of 1085 points out of a possible 1200 for a 90.4 percent average.



ORGDP

RIDE to administration building area from Crestwood Hills, West Knoxville, straight day. Phil Jones, plant phone 3-3296.

Y-12 PLANT

CAR POOL member from Norwood or Cherokee Ridge area, Knoxville, to any portal, straight day. E.C. Keith, plant phone 3-7615, home phone Knoxville 947-8573.

CAR POOL member from Fountain City area, Knoxville, to East or North Portal, straight day. John S. Hurst, plant phone 3-5043, home phone Knoxville 687-9360.

ORNL

RIDE from the West Hills section of Knoxville to either portal, 8 a.m. Richardson, plant phone 3-6331 or Knoxville 584-8279.

RIDE from intersection of Highway 61 and Oak Ridge Highway to 6025, either shift. Glenn Haynes, plant phone 3-6881 or Clinton 457-4427.

High musical honors go to Y-12 son in Clinton

Anthony Keith Ward was recently presented the music award at Clinton Junior High School, Named the outstanding male singer at school, he was chosen

to attend the music camp at The University of Tennessee this summer.

In addition to singing, Keith plays lead guitar in a group that plays for school dances. A member of the football team for the

Keith past two years, he is a junior counselor in DeMolays and sings

in the choir at his church.

He is the son of Mr. and Mrs. Clyde Ward, Clinton. His father is in Y-12's Shop Maintenance. He is also the grandson of two former Y-12ers, E.C. Ward and N.B. Keplinger.

Herb Pohto will chair **New Orleans conference**

Herb A. Pohto will serve as chairman and moderator of the High Pressure Technology Sessions and the Quality Assurance Session at the Joint Annual Petro-



Pohto

Ieum Mechanical Engineering and Pressure Vessels and Piping Conference. The conference is sponsored by the American Society of Mechanical Engineers, and will be held at New Orleans, September 17-21. Pohto, in

ORGDP's Mechanical Engineering Department, is chairman of the multi-plant Ad Hoc Committee for High Pressure Systems Safety. He serves as chairman of the Joint Committee on High Pressure Technology of the Pressure Vessel and Piping Division of the ASME.

Joie de vivre--Male hormones

By T. A. Lincoln, M.D.

What makes a 70-year-old man walk erect with a vigorous stride and a great enthusiasm for life? The French use the term "joie de vivre" (pronounced zhwa 'de ve'vr) to describe the joy of living. Such a person has a delight in being alive - a keen, carefree enjoyment of life. Is this vigor due to extra male hormone, testo-

sterone, or is it the result of an ideal life style?

The answer is obvious. There can be no single cause of such vigor. There have to be multiple reasons. Good physical health is essential. An optimistic outgoing enthusiasm

about life in general, in other words, superb mental health is necessary. But supporting the above two essentials there has to be adequate male hormone.

Men seldom experience anything comparable to the abrupt decline in sex hormone support which occurs in women at the menopause. A male climacteric has been described when symptoms of "hot flashes," depression, and loss of sexual desire may occur, but it is rare. Many men experience a gradual decline in sexual vigor after age 50 but how much is due to diminished hormone level and how much to psychological factors is extremely difficult to determine.

Vigor study difficult

Of basic importance is the tremendous range in male hormone levels even in the early twenties. Dr. A. Vermeulen, of the University of Ghent in Belgium, has studied testosterone secretion in relation to age. He has found that the range of levels of plasma testosterone in the 20-30 year age group may vary from 280 nanograms (ng) (billionths of a gram) per 100 ml to 1205 ng. These were all healthy adult normal males, yet the highest had four times as much hormone as the lowest.

The average plasma testosterone level remains relatively stable at about 640 ng until about age 50, when it begins to decline. The average between 60 and 70 is about 550 ng, while between 80 and 90 it is about 250 ng. The remarkable thing, however, is that some men have higher sex hormone levels at age 80 than some men have at age 21. Adequate studies to try to correlate hormone levels with overall vigor have not been made and would be difficult because of the subjectiveness of many of the measures of vigor.

What is vigor?

In recent years, techniques have been developed to measure blood levels of testosterone with great precision. Dr. Vermeulen used a gas chromatographic method using an electron-capture detector. Other precise techniques include a double-isotope derivative analysis, protein binding and radioimmunoassay. There are therefore several techniques available and they can be used to cross-check each other. They are still research tools, but it is likely that in the next five to ten years simplified methods suitable for large clinical laboratories will be developed.

How closely is sexual vigor related to hormone level? That's a difficult question to answer because one is forced to define what one means by vigor. Does it mean frequency of ejaculations, level of desire, or performance per episode?

Dr. C.A. Fox of the Medical Research Council in Edinburgh, Scotland, studied plasma testosterone levels before, during, and immediately after sexual intercourse in one volunteer. (The volunteer's wife collected over 60 samples of blood from a vein in his arm using repeated venapunctures. That's devotion to science!) The testosterone levels showed a marked daily variation and sometimes were lowest on the day intercourse occurred. A fairly consistent variation during each day was found, which incidentally has been found by other investigators. The highest levels were from 4 a.m. until noon, and the lowest in the evening. The act of coitus was invariably associated with an increase in plasma testosterone.

Feedback to brain?

Although years of study will be necessary, it is tempting to speculate about what may be found with future research. Adequate testosterone levels are necessary for sexual performance, but vigor may not be clearly related to individual levels. The basic level keeps the target organ prepared but whether or not it is activated depends entirely on environmental stimuli. Intercourse may stimulate a feedback mechanism to the brain, causing release of extra hormone. It is a common finding that, except for good physical health and adequate hormone support, sexual vigor after age 50 is as much dependent on a receptive partner as anything else.

Thus the man who retains joie de vivre has probably adequate hormone support but more importantly, he has a recurring stimulus which keeps him interested. He already enjoys vigorous physical and mental health.

Possibly some day supplemental male hormone will be given to men whose testosterone levels have dropped to low levels. Knowing what one's average level is for each decade of life would be a valuable baseline to refer to late in life when a man alleges he has run out of steam. In the meantime, an optimistic attitude plus recurring stimuli plus good health seem to offer the best long-range protection.

Quertermous firing earns trophy in antique shootout

Paducah Operations' Russ Quertermous recently won a trophy in shooting competition with flintlock and percussion muzzle loading rifles and pistols.

Quertermous took part in the Kaintuck Muzzle Loaders competition at the Calvert City Gun Club Range. He won the club's silver rifle trophy for the first time by scoring the smallest four shot group two shots each from 25 and 50 yards at a four inch target. His group measured .900 inch. He also won the novelty match.

Competition was conducted from distances of 25, 50 and 75 yards. The 25-yard shoot was fired off hand while any position without the aid of rests was permitted from 50 and 75 yards.

Bullseye targets were used and the only weapons permitted were flintlock and percussion muzzle-loading rifles and pistols, some of which were handmade by the owners.



GIRL GUIDES VISIT — Newell E. Bolton, Health Division, tours three Mexican Girl Guides through ORNL. The girls visited Oak Ridge's Girl Scout Troop 69 recently. Left to right are Adriana Schroeder; Monica Villa, whose father works for Union Carbide in Monterrey, Mexico; and Mahuisa Michaus.

Advanced degrees awarded

Several ORNL employees have received advanced degrees in recent gradua-

Receiving the Ph.D. degree from The University of Tennessee were: Sammie D. Clinton of Chemical Technology Division in chemical engineering, Enyeart C. Crume of Thermonuclear Division in plasma physics and Gary E. McGuire of Analytical Chemistry Division in inorganic chemistry.

Phillip N. Ritchey of the Civil Defense Section of Health Physics Division received the Ph.D. in sociology from the University of Georgia.

Receiving the M.S. degree from The University of Tennessee were: Harry G. Arnold of General Engineering Division in mechanical engineering, Diane J. Goins of Biology Division in radiation biology, Richard A. Hopkins of Health Physics Division in geophysics and Richard A. Lillie of Instrumentation and Controls Division in nuclear engineering.



WEDDING BELLS — Joy Jamison, mechanical engineering co-op student in the Compressors and Stage Equipment Department at ORGDP, and Tony Angelelli, of the same department at ORGDP, were married at St. Mary's Catholic Church in Oak Ridge on August 5. Mrs. Angelelli is the daughter of Kenneth E. Jamison of ORNL's Plant and Equipment Division

EOMPANY SERVICE 20-25-30

ORNL 25 YEARS

Francis J. Davis, Glenn T. McIntyre, James H. Groover, Donna Michelson, Edwin Hensley, William T. Mullins, Benjamin M. Beeler-Jr., Thomas-L. Tuck, Herman F. Soard, Samuel W. Nichols, Jack D. Hill, James H. Day, Berkeley P. Davis, Jack R. McWherter and Jack L. Posey.

20 YEARS

Betty E. Burch, Elmer C. Reaves, Eldridge E. Smith, Richard E. Peden, Victor L. Fowler, Richard H. Busey, Mable L. Fitzpatrick, Newell E. Bolton, Henry H. Tuck, Paul E. Hudson, Charles R. Starlin, Theodore T. O'Dell Jr., Clarence W. Blue, William L. Pattison, William M. Woods Jr., James V. Winchester, Loness Guinn and Sherman A. Reed.

Y-12 PLANT 25 YEARS

Roy B. Blankenship and Daniel J. Cooley.

20 YEARS

Herman F. Wyrick, Ernest L. Croley, Lee E. Richardson, Joe G. Harmon, James D. Lovin, Wilbur N. Proffitt, John N. McNelly, James P. McMillin, Glenn Slack, James T. Swaggerty Jr., and James R. Pelfrey.

ORGDP 25 YEARS

Billie E. Lee, Ida M. Roper, Clyde D. Hylton and William E. Templeton.

20 YEARS

Norman Ross, Ada A. Miller, Mary J. Browning, Garland B. Seaborn Jr., Edward M. Bordes and Helmon C. Smith.

PADUCAH 20 YEARS

James E. Orazine, Eric H. Cunningham, Gus D. Yarbrough, Leroy R. Hall, William J. McGee, George W. Williams, Charles W. Burdette, Charles E. Carrigan, Gene E. Henderson, Louis M. Faughn, Stanley W. Peal and Fred L. Lewis.

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SHARE Y-12 PLAUDITS — Officials share the three separate honors that came to the Y-12 Plant recently from the National Safety Council, the Atomic Energy Commission and Union Carbide Corporation, George Hyatt, recording secretary for the Atomic Trades and Labor Council, holds the AEC's Award of Merit; B.W. Hensley, president of ATLC, is seen with the UCC Outstanding Safety Achievement plaque; and C.R. Lively, president of Local Three of the International Guards Union of America, holds the NSC's Award of Merit. The three awards are the highest in their field and were given for Y-12's 1971 safety performance. From left are Hyatt, Jack M. Case, Y-12 Plant Superintendent; Hensley; Lively; and Clarence E. Johnson, director of the plant's safety department. During last year, the plant operated 6,334,480 man-hours without a lost-time injury, and has already more than doubled that period this year. "The plaques belong to every man in the plant," Case told the group.

CALENDAR ^{−0]}EVENTS

TECHNICAL September 15

Biology Division Workshop Seminar: "Micro and Macro Pipetting Techniques." Large Conference Room, Building 9207, Y-12 Plant, 10 a.m.

General Engineering Division Seminar: "Timberlake Town, A Public-Private Venture," F.B. Williams, Boeing Company. East Auditorium, Building 4500N, 1:30

Health Physics Division Seminar: "Photoelectron Spectroscopy of High-Temperature Vapors," Joseph L. Dehmer, Argonne National Laboratory. East Auditorium, Building 4500N, 10 a.m.

September 20

Metals and Ceramics Division Seminar: "The Role of Mechanical Properties of Oxide Fuels in the Performance of Fast Reactor Fuel Elements," J.T.A. Roberts, Argonne National Laboratory. East Auditorium, Building 4500N, 2:45 p.m.

September 21

Nuclear Safety Seminar. C.G. Amato, "Procedures for Implementing Protective Action Guides." 4500 Building East. 9:15

September 25

Biology Division Seminar: "Patterns of RNA Synthesis in Relation with Mitotic Activity and Aging," Jean Delcour, Unite de Genetique Moleculaire des Eucaryotes, Louvain, Belgium. Large Conference Room, Building 9207, 12:15 p.m.

September 26

Oak Ridge Section of Institute of Electrical and Electronic Engineers dinner meeting. 7 p.m. Alexander Motor Inn, Oak Ridge. William E. Browning Jr., ORNL, "Preparation of Environmental Statements for Reactor Plants." Tickets \$4 - through Mel L. Winton, extension 3-7253.

COMMUNITY October 5

Atomic City Stamp Club's monthly meeting: Oak Ridge Civic Center, 7:30 p.m.

October 6-7

Handicrafts Fair: Women's Alliance of the Unitarian Church: October 6 from 10 a.m. to 9 p.m.; October 7 from 10 a.m. to 6 p.m. Unitarian Church, corner of Robertsville Road and Turnpike.

Foreign travel planned

(Continued from page 2)

International Symposium on Present Status and Novel Developments in the Nuclear Many-Body Problem in Rome, Italy, September 19-23. He coauthored another invited paper, "Deformed Brueckner-Hartree-Fock Calculations," with R.C. Braley and W.F. Ford of Lewis Research Center in Cleveland, Ohio.

John F. Clarke, Thermonuclear Division, will present two lectures on plasma heating techniques to the International School of Plasma Physics at Varenna, Italy, September 20-October 4.

Tuneo Yamada, Biology Division, participated in a workshop on Problems of Determination and Transdetermination in their relation to Molecular Biology at Mannedorf, Switzerland, in late August. He visited Swiss Institute for Experimental Cancer Research and gave a seminar on "Studies on Cell Dedifferentiation," September 5-8. He participated in a workshop on Formation of Messenger RNA in Eukaryotic Cells to discuss "Metaplastic Cell Tramsformation" in Arolla, Switzerland, September 11-16.

Rhoda F. Grell, Biology Division, will present "Chromosome Replication and Recombination in the Drosophila Oocyte" at the Fourth International Chromosome Conference in Jerusalem, Israel, September 11-15.

Nuclear Division deaths



Mr. Vittatoe

Mr. Winton

W.A. (Andy) Vittatoe, a bus and truck driver in ORNL's Plant and Equipment Division died on August 29 at Fort Sanders Hospital in Knoxville. A veteran

William L. Stirling, Thermonuclear Division, will present "Intense Ion Beam Production Below 40 KeV" at the Second International Conference on Ion Sources in Vienna, Austria, September 11-15.

Thomas A. Carlson, Chemistry Division, presented "Study of the Angular Distribution for the Photoelectron Spectra of Halogen Substituted Methane Molecules" at the Conference on Photoelectron Spectroscopy of Molecules in Brighton, England, September 12-14.

Norman G. Anderson, director of the Molecular Anatomy Program, will present "New Analytical Systems for Clinical and Research Laboratories" at the Eighth World Congress of Anatomy and Clinical Pathology in Munich, Germany, September 12-16. At the European Symposium of Zonal Centrifugation in Density Gradient in Paris, France, September 27-29, he will present "Centrifugation in Gradients: History and Prospects."

Frederick W. Young Jr., associate director, Solid State Division, will present "Defect Clusters in Neutron Irradiated Copper" at the International Conference on Point Defects and Their Aggregates in Metals in Brighton, England, September 18-20. The paper is coauthored by B.C. of World War II, he joined ORNL in

Surviving are his wife; a son Randy; and two daughters, Patricia Sisson and Marlene Leamon, of Knoxville; and three grandchildren.

Funeral services were held at Weaver Funeral Home Chapel on September 1 with burial in the Solway Church of God cemetery. The Beaver Ridge Lodge 366 held a memorial service on August 31 at Weaver's.

William F. Winton, a laundry washer in Operations Division, died on August 25 at his home on Route 17 in Knoxville. He joined ORNL in 1943.

He is survived by his wife and a daughter.

Funeral services were held on August 28 at Jarnigan Funeral Home in Knoxville.

Floyd H. Ludwig, Y-12's General Metal Fabrication Shops, died September 2, in a Knoxville hospital. Death was attributed to a brain tumor.



Mr. Ludwig, a native of Estine, S.D., came to Y-12 March 1, 1944, after working with the Remington Arms Plant, Denver, Colo.

Survivors include his wife Mrs. Yvonne H. Ludwig, 1112 Buckthorn Road,

Mr. Ludwig Knoxville; sons, Floyd J. and Maynard D.; daughters, Barbara and Deborah Ludwig; two brothers and two sisters; and three grandchildren.

Funeral services were held at Weaver's Chapel, Knoxville, with the Rev. Harry Smith officiating. The burial was held in